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| Application N . | Applicant(s)   |  |
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| 09/540,471      | AKULOVA ET AL. |  |
| Examiner        | Art Unit       |  |
| Jimmy T Vu      | 2821           |  |

| / | Rejected | 1 | (Through numeral)<br>Cancelled |
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|  |   |                                     |          |          |                                     |          | J          |  | L  | _               |
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| Cla  | im  | Date                                |          |          |                                     |          |            |  |  |                 |
| UI6  |   | <del> -</del>                       |          | _        | _                                   |          | ř—         |  |  | Н               |
| Final  | Original  | 05                                  |          |          |                                     |          |            |  |  |                 |
|  | 1   | =                                   | -        | -        |                                     |          |            |  |  |                 |
| 9.   | 2   | Ť                                   | $\vdash$ | Т        |                                     |          | $\vdash$   | <del>                                     </del> |  | Н               |
| 3  | 3   | #                                   |          |          |                                     |          | ┢          | _  |  | Н               |
| 4  | 4   | $\top$                              |          | _        |                                     |          | <u> </u>   |  | $\vdash$   | П               |
| 7  | 5   | 1                                   | _        | _        |                                     | -        |            | $\vdash$   | Г  | П               |
| -  | 6   | 1                                   |          | $\vdash$ | $\vdash$                            |          | $\vdash$   |  | $\vdash$   | Н               |
| 9  | 7   |                                     |          |          |                                     |          | _          | $\vdash$   |  | П               |
| 8  | 8   | II                                  |          | Т        | -                                   |          |            |  |  | П               |
| 9  | 9   | $\top$                              |          |          |                                     |          |            |  |  | П               |
| lo   | 10  | 1                                   |          |          |                                     |          |            | $\vdash$   |  | П               |
| ľ  | 11  | П                                   | Г        |          |                                     |          |            | Γ  | Γ  |                 |
| 12   | 12  | П                                   |          |          |                                     |          |            |  |  |                 |
| 13   | 13  |                                     |          |          |                                     |          |            |  |  |                 |
| 1 2 3 4 5 6 7 8 9 9 9 9 19 15 16 17 18 17 20 | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 |                                     | $L_{-}$  |          |                                     |          |            |  |  |                 |
| 18   | 15  |                                     |          |          |                                     |          |            |  |  |                 |
| 16   | 16  |                                     |          |          |                                     |          |            |  |  |                 |
| 17   | 17  |                                     |          |          |                                     |          |            |  |  |                 |
| 18   | 18  | П                                   |          |          |                                     |          |            |  |  |                 |
| 19   | 19  | П                                   |          |          |                                     |          |            |  |  |                 |
| 20   | 20  | =                                   |          |          |                                     |          |            |  |  |                 |
|  | 21  |                                     |          |          |                                     |          |            |  |  |                 |
|  | 22  |                                     |          |          |                                     |          |            |  |  |                 |
|  | 23  |                                     |          |          |                                     |          |            |  |  |                 |
|  | 24  |                                     |          |          |                                     |          |            |  |  |                 |
|  | 24<br>25<br>26<br>27<br>28<br>29  |                                     |          |          |                                     |          |            |  |  |                 |
|  | 26  |                                     |          |          |                                     |          |            |  |  |                 |
|  | 27  |                                     |          |          |                                     |          |            |  |  |                 |
|  | 28  |                                     |          |          |                                     |          |            |  |  |                 |
|  | 29  |                                     |          |          |                                     | L        |            |  | L  |                 |
|  | 30<br>31  | <u></u>                             | _        |          |                                     |          |            | L  | _  |                 |
|  | 31  |                                     | <u> </u> |          |                                     |          |            |  | _  |                 |
|  | 32<br>33  |                                     |          |          | L_                                  |          |            |  | <u> </u>   |                 |
|  | 33  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _        |          |                                     | _        |            | <b> </b>   | _  | Щ               |
|  | 34  | L_                                  | <u> </u> | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |          | <u> </u>   | <u> </u>   | <u> </u>   |                 |
|  | 35  | <u> </u>                            | <u> </u> | <u> </u> | L                                   |          | _          | Щ  | <u> </u>   |                 |
|  | 36  | <u> </u>                            | <u> </u> | <u> </u> |                                     | <u> </u> | <u> </u>   | $\vdash$   | <u> </u>   | $\sqsubseteq$   |
|  | 37  |                                     | <u> </u> |          | <u> </u>                            |          | <u> </u>   | $\vdash$   | _  |                 |
|  | 38  |                                     | _        | <u> </u> |                                     |          | _          |  | _  |                 |
|  | 39  | _                                   | _        | $\vdash$ | $\vdash$                            | H        | _          | $\vdash$   | <u> </u>   | $\dashv$        |
| <u> </u>                                     | 40  | $\vdash$                            | $\vdash$ | $\vdash$ | $\vdash$                            | $\vdash$ | <u> </u>   |  | -  | $\vdash$        |
|  | 41  | $\vdash$                            | $\vdash$ | <u> </u> |                                     | <u> </u> | <u> </u>   | $\vdash$   | <u> </u>   | Ш               |
|  | 42  |                                     | <u> </u> | <u> </u> | $\vdash$                            | $\vdash$ | <u> </u>   | $\vdash$   | <u> </u>   | $\vdash$        |
| <b> </b> -                                   | 43  | <b> </b>                            | $\vdash$ | <u> </u> | $\vdash$                            | $\vdash$ | <b> </b> - | -  | <b> -</b> -                                      | $\vdash\vdash$  |
|  | 44  | $\vdash$                            | <u> </u> | <u> </u> | $\vdash$                            | $\vdash$ | <b> </b>   |  | -  | $\vdash\dashv$  |
|  | 45  | <u> </u>                            | <u> </u> |          |                                     |          |            | H  |  | $\dashv$        |
|  | 46  | <u> </u>                            | <u> </u> | $\vdash$ |                                     | <u> </u> | <u> </u>   | $\vdash$   | <u> </u>   | $\vdash \vdash$ |
| <u> </u>                                     | 47  | $\vdash$                            | $\vdash$ | <u> </u> | <u> </u>                            | <u> </u> | <u> </u>   | $\vdash$   | -  | Н               |
| $\vdash \vdash$                              | 48  | <u> </u>                            | L.       | <u> </u> | $\vdash$                            | <u> </u> |            | $\vdash$   | <del>                                     </del> | $\vdash\vdash$  |
|  | 49  | $\vdash$                            | _        | <u> </u> | $\vdash$                            | H        |            | -  | -  | $\vdash$        |
|  | 50  |                                     |          |          |                                     |          |            |  |  | · I             |

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|----------------------|--|--------------|----------|--------------|--------------|----------|--|--------------|--------------|----------|
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| <u></u>              | Original                                     |              |          |              |              | 1        |  |              |              |          |
| Final                | į  |              |          |              |              |          |  |              |              |          |
| -                    | 0  |              |          |              |              |          |  |              |              |          |
|                      | 51   | H            | $\vdash$ |              |              | ├-       | ┢  | -            | ┢            | $\vdash$ |
|                      | 52   | ┢            | -        | -            |              | -        | -  |              | $\vdash$     | H        |
|                      | 52<br>53                                     | ┝            | -        | -            |              | ┢╾       | ┢  |              | $\vdash$     | $\vdash$ |
|                      | 54   | $\vdash$     | -        | -            |              | ╁╾       | -  |              | -            | $\vdash$ |
|                      | 55   | $\vdash$     |          | $\vdash$     |              | -        | ┢  | <del> </del> | $\vdash$     | ┢        |
|                      | 56   | -            | -        | H            |              | $\vdash$ | ┢  | -            | -            | $\vdash$ |
|                      | 57   |              | -        | $\vdash$     | _            | ╁┈       | ┢  |              | $\vdash$     | -        |
|                      | 58   |              |          |              | -            | -        | $\vdash$   | $\vdash$     | -            | ├        |
|                      | 58<br>59                                     | -            | -        | $\vdash$     |              | $\vdash$ | -  | -            | -            | ⊢        |
|                      | 60   | <del> </del> | -        | -            |              | ┢        | $\vdash$   |              | $\vdash$     | -        |
|                      | 61   | -            |          |              |              | -        |  |              | -            | -        |
|                      | 61<br>62                                     |              |          | ┝            |              |          | -  | -            | ├            | H        |
|                      | 63   | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$     |          | -  |              | $\vdash$     | ⊢        |
| $\vdash$             | 64   | -            | -        | -            | ┢            | -        | $\vdash$   |              | $\vdash$     | $\vdash$ |
| $\vdash$             | 65   | -            | $\vdash$ | ├            | ├            | -        | $\vdash$   | -            | $\vdash$     | $\vdash$ |
| -                    | 66   | -            | -        | <del> </del> | <del> </del> | -        | $\vdash$   |              | $\vdash$     | $\vdash$ |
|                      | 67   | -            | -        | -            | ├            |          | -  |              | -            | -        |
|                      | 6/   | -            | _        | <u> </u>     | <del> </del> | _        |  |              | -            | ├        |
| -                    | 68   | -            | <u> </u> | <u> </u>     |              |          | _  |              | ⊢            | _        |
|                      | 69<br>70                                     |              |          | ├-           |              | _        |  | -            | ⊢            | _        |
|                      | 70   |              |          | <u> </u>     | _            | <u> </u> |  | <u> </u>     | <u> </u>     | <u> </u> |
|                      | 71   | _            | _        | <u> </u>     | <u> </u>     |          |  | _            | <u> </u>     | _        |
|                      | 72   |              | <u> </u> | ┡            | <u> </u>     | _        | _  | _            |              | _        |
|                      | /3   | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>     | L        |  | <u> </u>     |              |          |
|                      | 74   | <u> </u>     | _        | L            | <u> </u>     | _        |  | -            | H            |          |
|                      | 72<br>73<br>74<br>75<br>76<br>77<br>78<br>79 | _            | _        | <u> </u>     |              | _        |  | <u> </u>     |              |          |
|                      | /6   | _            | _        |              |              | _        |  | <u> </u>     |              |          |
|                      |  | _            | <u> </u> |              | _            | _        |  | <u> </u>     |              |          |
|                      | 78   |              | L        | H            | <u> </u>     | <u> </u> | _  | <u> </u>     | <u> </u>     | ļ        |
|                      | 79   | $\vdash$     | $\vdash$ |              | <u> </u>     | ┝        |  | <u> </u>     | ⊢            | -        |
| -                    | 80<br>81                                     |              |          |              | ┡            | <u> </u> |  |              |              | <u> </u> |
|                      | 81   | H            | L        |              | _            | <u> </u> |  | <u> </u>     |              |          |
|                      | 82   | _            |          |              | <u> </u>     | L        |  | <u> </u>     |              | _        |
| $\vdash$             | 83   | -            | -        |              | <u> </u>     | <u> </u> | <u> </u>   | <u> </u>     | $\vdash$     | <u> </u> |
| $\vdash \vdash \mid$ | 84   | $\vdash$     |          |              | <u> </u>     | <u> </u> | <u> </u>   | <u> </u>     | <u> </u>     | ├-       |
|                      | 85   | H            | <u> </u> | <u> </u>     | <u> </u>     |          | <u> </u>   | <u> </u>     | <del> </del> | -        |
|                      | 86   | $\vdash$     | $\vdash$ | $\vdash$     | <u> </u>     | $\vdash$ | ├_   | <u> </u>     | <del> </del> | <u> </u> |
| <u> </u>             | 87   | Ш            | $\vdash$ | $\vdash$     | _            | <u> </u> | <u> </u>   | <u> </u>     | <u> </u>     | <u> </u> |
|                      | 88   |              |          |              | _            |          | _  | _            |              |          |
|                      | 89   |              | _        |              | _            | H        | _  |              |              |          |
|                      | 90   |              | $\vdash$ |              | _            | <u> </u> |  |              |              |          |
|                      | 91   | $\vdash$     | <u> </u> | <u> </u>     | $\vdash$     |          | <u> </u>   | <u> </u>     | H            | -        |
|                      | 92   |              | -        | ├            | <u> </u>     |          | -  | ├            | H            | $\vdash$ |
| $\vdash$             | 93   | H            | H        |              | <u> </u>     |          | -  |              |              |          |
|                      | 94   | <u> </u>     | $\vdash$ | $\vdash$     | <u> </u>     | _        | <u> </u>   | <u> </u>     | -            | <u> </u> |
| igwdown              | 95   | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>     | $\vdash$ | $\vdash$   | <u> </u>     | <u> </u>     | $\vdash$ |
|                      | 96   | L.,          | <u> </u> | <u> </u>     | <u> </u>     | <u> </u> | <u> </u>   | <u> </u>     |              | ⊢-       |
| <b> </b>             | 97   | L_           | <u> </u> |              | <u></u>      | <u> </u> | <u> </u>   | <u> </u>     | <u> </u>     | <u> </u> |
| $\vdash$             | 98   | <u> </u>     | L.       | $\vdash$     |              | L.       | _  | <u> </u>     |              | -        |
| Щ                    | 99   |              |          | L            |              |          | $ldsymbol{ld}}}}}}$ |              |              | _        |

| Cl    | aim  | Date     |          |          |          |  |          |              |          |              |
|-------|--|----------|----------|----------|----------|--|----------|--------------|----------|--------------|
| Final | Original   |          |          |          |          |  |          |              |          |              |
|       | 101<br>102<br>103<br>104<br>105                      |          |          |          |          |  |          |              |          |              |
|       | 102  | L        | <u> </u> |          |          |  |          |              |          |              |
|       | 103  | _        |          | _        | ┖        |  |          | L            | _        |              |
|       | 104  | <u> </u> |          | <u> </u> | _        |  | _        | _            | _        |              |
|       | 105  |          |          | <u> </u> |          |  | _        | ļ            | <u> </u> |              |
|       | 106<br>107   |          | <u> </u> | <u> </u> | <u> </u> |  |          | _            | _        | ļ            |
|       | 107  | <u> </u> | -        | -        | _        | _  | <u> </u> |              | <u> </u> |              |
| _     | 108  | <u> </u> | -        | -        | ⊢        | _  | ⊢        | ┝            | ┝        | _            |
|       | 110  | -        |          | ⊢        | -        | -  |          | ┢            | -        | -            |
|       | 111  | -        | -        |          | _        |  |          | ┢            |          |              |
|       | 112  | $\vdash$ | <u> </u> | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$     |
|       | 113  |          |          | H        | ┢        | $\vdash$   | $\vdash$ | H            | $\vdash$ | $\vdash$     |
|       | 109<br>110<br>111<br>112<br>113<br>114<br>115        | -        | _        | l        | ┢        | <u> </u>   |          |              | <u> </u> | -            |
|       | 115  |          |          |          | <u> </u> |  |          |              | _        |              |
|       | 116  |          |          |          |          |  |          |              |          |              |
|       | 117  |          |          |          |          |  |          |              |          |              |
|       | 117<br>118<br>119                                    |          |          |          |          |  |          |              |          |              |
|       | 119  |          |          |          |          |  |          |              |          |              |
|       | 120  |          |          |          |          |  |          |              | <u></u>  | L            |
|       | 121  | <u> </u> |          |          | <u> </u> | $ldsymbol{ld}}}}}}$ | _        |              |          | L.           |
|       | 122  | _        | L        |          | _        | <u> </u>   |          |              |          | L            |
|       | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127 |          | _        | L_       |          | _  |          | L            | L        |              |
|       | 124  | -        | <u> </u> | <u> </u> | <u> </u> | _  |          | <u> </u>     | _        | <u> </u>     |
|       | 125  |          |          | ┞        |          | -  |          | ├-           | -        | <u> </u>     |
|       | 120  |          |          | ├        | ⊢        | -  | <u> </u> | -            | -        | -            |
|       | 128  |          | _        | ├        | ├        | -  |          | -            | -        | -            |
|       | 120  | _        | _        | ┢─       | $\vdash$ | $\vdash$   | ┢        | $\vdash$     | $\vdash$ |              |
|       | 130  | -        |          |          |          |  | ┢╌       | -            |          | H            |
|       | 131  |          |          |          | $\vdash$ |  | $\vdash$ | $\vdash$     |          |              |
|       | 132  | _        |          |          | $\vdash$ | $\vdash$   |          | $\vdash$     |          |              |
|       | 133  |          | Т        | Г        |          | Г  |          |              |          | П            |
|       | 128<br>129<br>130<br>131<br>132<br>133<br>134        |          |          | Γ        | Г        |  |          |              |          | Г            |
|       | 135  |          |          |          | Ĺ        |  |          |              |          |              |
|       | 136<br>137   |          |          |          |          |  |          |              |          |              |
|       | 137  |          |          | L        |          | Ш  |          | L            | L_       |              |
|       | 138  |          | L.       | _        | L        | $\Box$   |          |              | L        |              |
|       | 139  |          | <u> </u> | <u> </u> | <u> </u> | lacksquare   |          | <u> </u>     | <u> </u> | _            |
|       | 140  | L        | _        | <u> </u> | <u> </u> | L  |          | <u> </u>     | <u> </u> | $oxed{oxed}$ |
|       | 141  |          | _        |          |          | <u> </u>   | L        | <u> </u>     | <u> </u> | <u> </u>     |
|       | 142  | _        | -        | $\vdash$ |          | <del> </del>   | _        | ⊢            |          |              |
|       | 143  |          | -        |          | $\vdash$ | $\vdash$   |          | <u> </u>     | -        | -            |
|       | 144<br>145   |          | -        | -        | $\vdash$ | $\vdash$   |          | $\vdash$     | -        | -            |
|       | 145  | $\vdash$ | -        | $\vdash$ | ├─       | ├-   | -        | ┝            | $\vdash$ | -            |
|       | 147  | -        | -        | $\vdash$ | $\vdash$ | -  |          | <del> </del> | $\vdash$ | $\vdash$     |
|       | 148  | $\vdash$ | _        | -        | $\vdash$ | H  | $\vdash$ |              | -        |              |
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|       | 150  | _        |          | $\vdash$ | ┢        |  | $\vdash$ | $\vdash$     |          | -            |
|       | . 50   |          |          | L        |          |  |          |              |          |              |